



# iPhone 6 Plus Display Assembly Replacement

Replace the Display Assembly in your iPhone 6 Plus.

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## INTRODUCTION

Use this guide to replace the cracked or broken screen on your iPhone 6 Plus by swapping out the display assembly.

This guide will help you remove the screen and the home button for transfer to the new part. This guide does not include the removal of the front-facing camera and sensor cable, or the earpiece speaker. If your part does not have these components, follow the more in-depth [front panel guide](#).

In either case, it's important to transfer the original home button onto the new display in order for Touch ID (fingerprint scanning) to function.

[video: <https://www.youtube.com/watch?v=5w-08cn6ufw>]



### TOOLS:

- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [iSclack](#) (1)
- [iFixit Opening Tools](#) (1)
- [Suction Handle](#) (1)
- [Tweezers](#) (1)
- [Phillips #000 Screwdriver](#) (1)




### PARTS:

- [iPhone 6 Plus LCD Screen and Digitizer Full Assembly](#) (1)
- [NuGlas Tempered Glass Screen Protector for iPhone 6 Plus 6s Plus 7 Plus](#) (1)
- [iPhone 6 Plus Front Panel Assembly Cable Bracket](#) (1)

## Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.6 mm P2 Pentalobe screws next to the Lightning connector.

## Step 2 — iSclack Opening Procedure



- i** The next two steps demonstrate using the [iSclack](#), a great tool for safely opening the iPhone 6 Plus that we recommend for anyone doing more than one repair. **If you aren't using the iSclack, skip to Step 4.**
- If the plastic depth gauge is attached at the center of the iSclack, remove it now—it's not needed for larger phones like the iPhone 6 Plus.
  - Close the handle on the iSclack, opening the suction cup jaws.
  - Place the bottom of your iPhone in between the suction cups.
  - i** Position the iSclack's upper suction cup against the display, near the home button.
  - Open the handles to close the jaws of the iSclack. Center the suction cups and press them firmly onto the top and bottom of the iPhone.

## Step 3



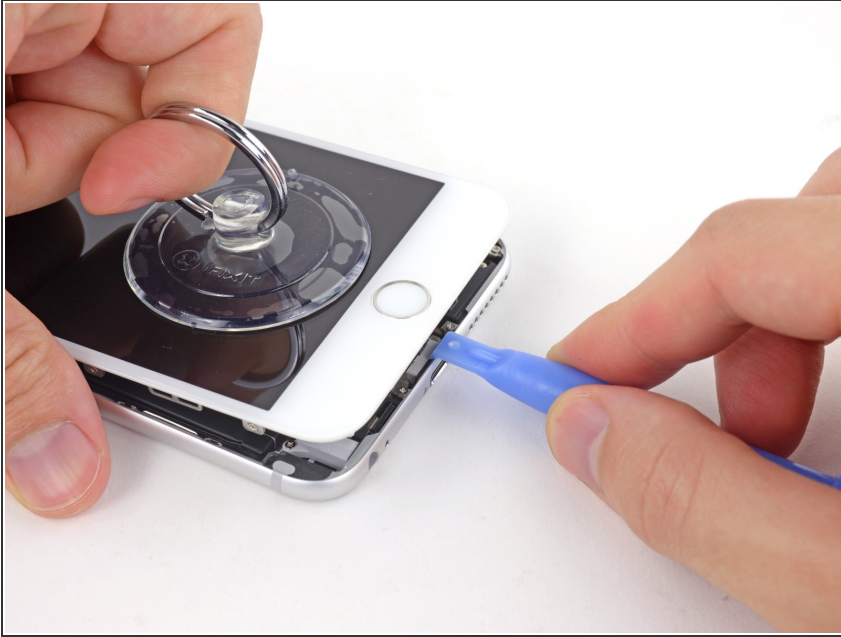
- Hold onto your iPhone securely and close the handle of the iSclack to separate the suction cups, pulling the front panel up from the rear case.
- ⓘ The iSclack is designed to safely open your iPhone enough to separate the pieces, but not enough to damage any of the display cables.
- Peel the two suction cups off your iPhone.
- **Skip the next three steps and continue on to Step 7.**

## Step 4 — Front Panel Assembly



- If you don't have an iSlack, use a single suction cup to lift the front panel:
- Press a suction cup onto the screen, just above the home button.
- ⓘ Be sure the cup is pressed securely onto the screen to get a tight seal.

## Step 5



- While holding the iPhone down with one hand, pull up on the suction cup to slightly separate the front panel assembly from the rear case.
  - ⚠ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices.
- Using a plastic opening tool, begin to gently pry the rear case down, away from the display assembly, while continuing to pull up with the suction cup.
- ⓘ There are several clips attaching the front panel assembly to the rear case, so you may need to use a combination of the suction cup and plastic opening tool to free the front panel assembly.



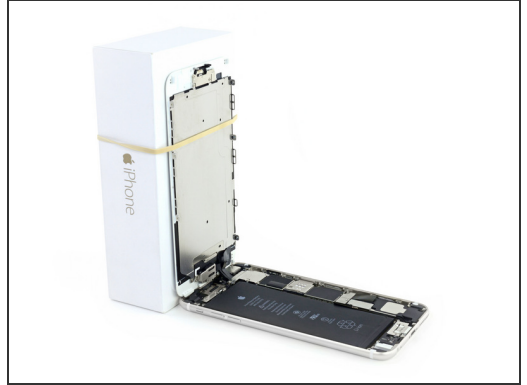
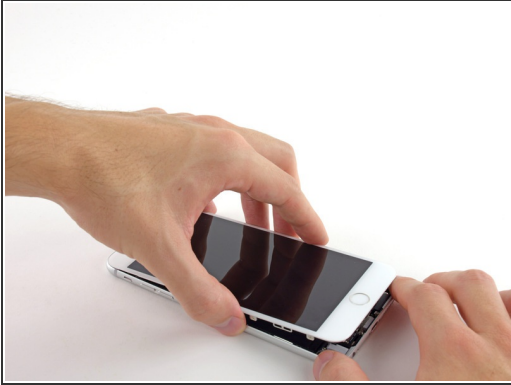
## Step 6



- Pull the plastic nub to release the vacuum seal on the suction cup.
- Remove the suction cup from the display assembly.

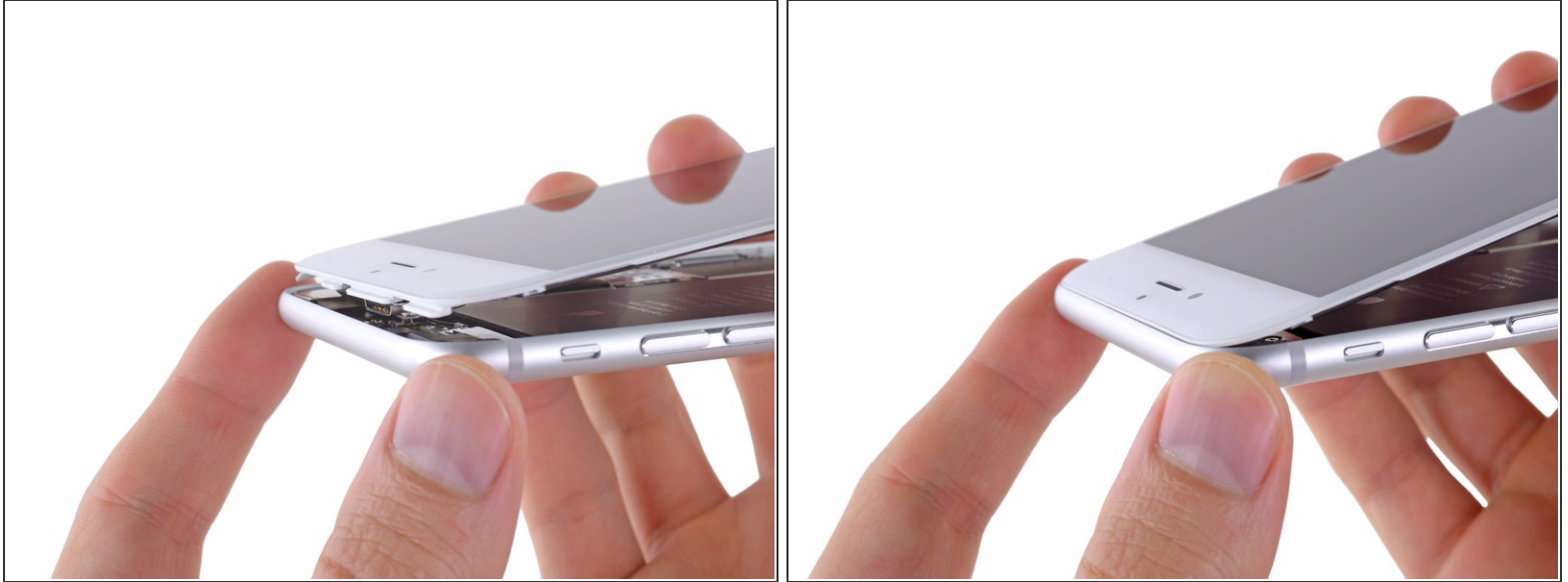




## Step 7



- Pull the home button end of the front panel assembly away from the rear case, using the top of the phone as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
  - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.
- ❗ In a pinch, you can use an unopened canned beverage to hold the display.

## Step 8



-  Several clips along the top edge of the front panel form a partial hinge, allowing the front panel assembly to swing open like a book.
-  During reassembly, align the clips just below the top edge of the rear case. Then, slide the front panel upward until its top edge is flush with that of the rear case.

## Step 9



- Remove the following Phillips screws from the battery connector bracket:
  - One 2.3 mm screw
  - One 3.1 mm screw

## Step 10



- Remove the metal battery connector bracket from the iPhone.

## Step 11



- Gently pry the battery connector up from its socket on the logic board.
- ⚠ Take care to **only** pry up on the battery connector, and not the socket on the logic board. If you pry up on the logic board socket, you may break the connector entirely.



## Step 12



- While holding the front panel open at about a 90° angle, remove the following Phillips screws securing the front panel assembly cable bracket:

- Three 1.2 mm screws
- One 1.5 mm screw
- One 2.9 mm screw

**⚠ Do not attempt to insert longer screws into the red marked screw holes. Doing so may result in irreparable damage to the logic board.**

## Step 13



- Remove the front panel assembly cable bracket from the logic board.

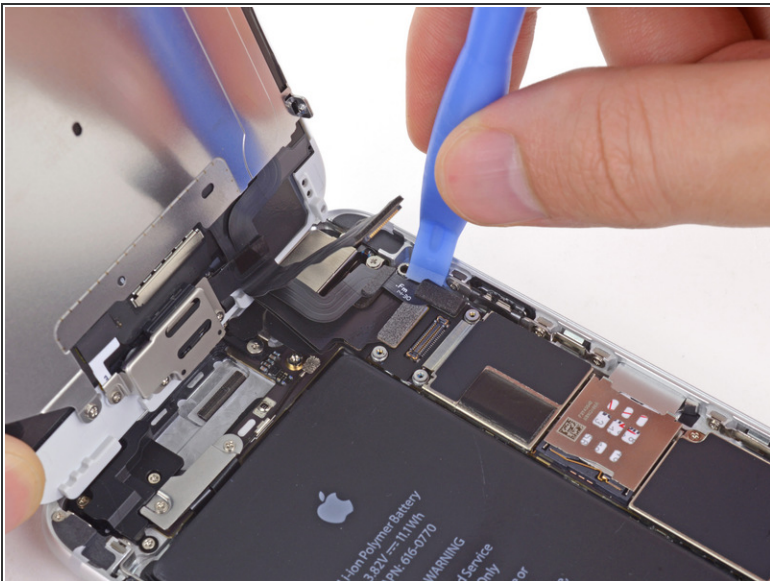
## Step 14



⚠ In the next four steps, take care to pry up **only** on the cable connectors, and not on their sockets on the logic board.

- While still supporting the front panel, use a plastic opening tool to disconnect the front-facing camera and earpiece speaker cable connector.

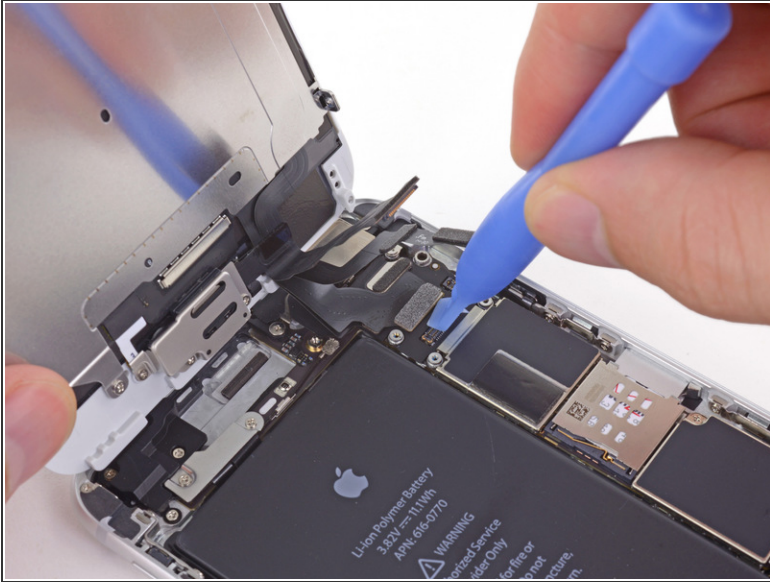
## Step 15



- Use a plastic opening tool to disconnect the home button cable connector.

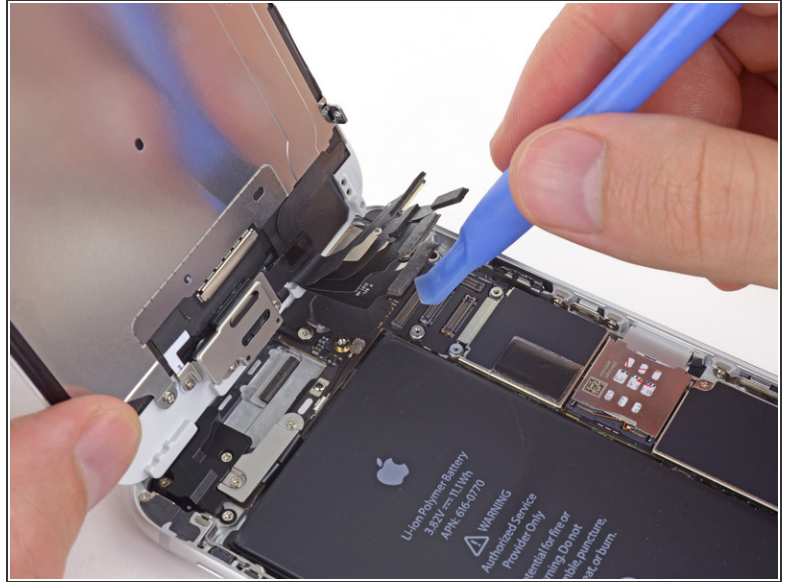
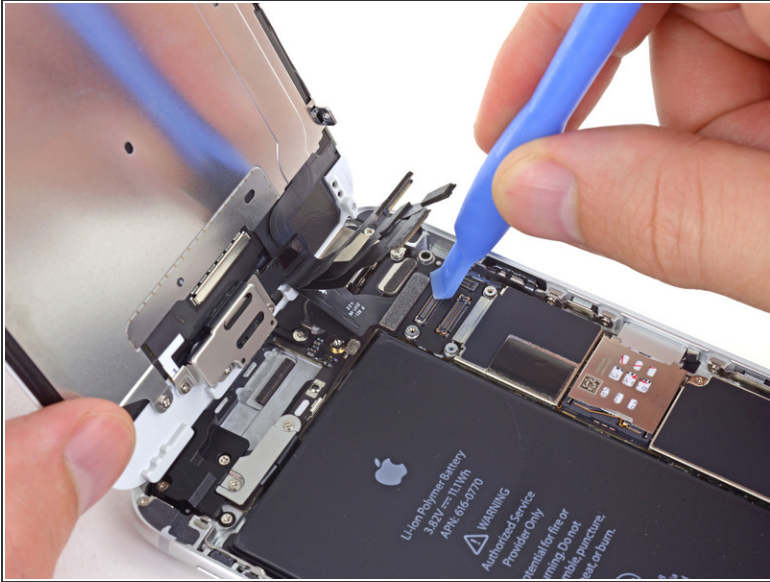


## Step 16



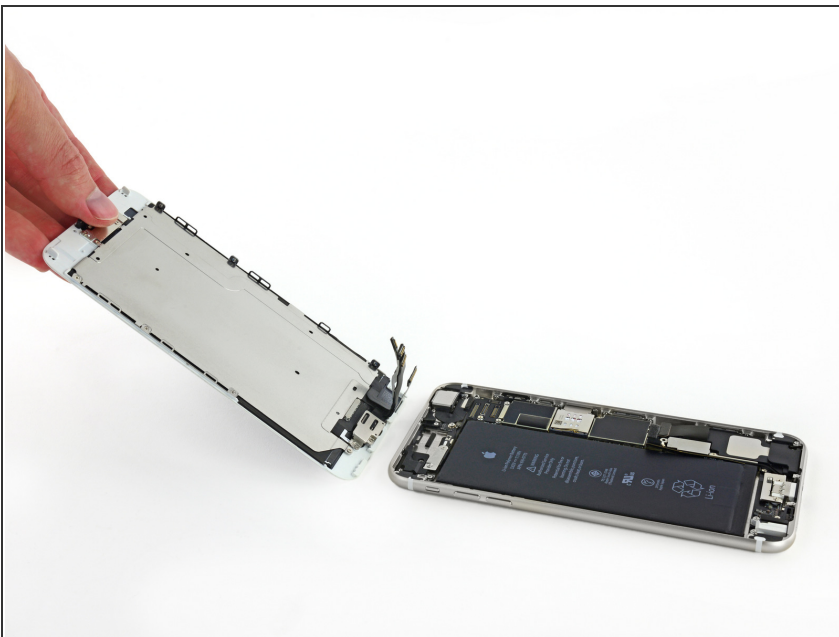
- Use a plastic opening tool to disconnect the display data cable connector.
- ★ When reassembling your phone, the display data cable may pop off the connector. This can result in white lines or a blank screen when powering your phone back on. If that happens, simply reconnect the cable and power cycle your phone. The best way to power cycle your phone is to [disconnect and reconnect the battery connector.](#)

## Step 17



- Finally, use a plastic opening tool to disconnect the digitizer cable connector.
- ✦ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

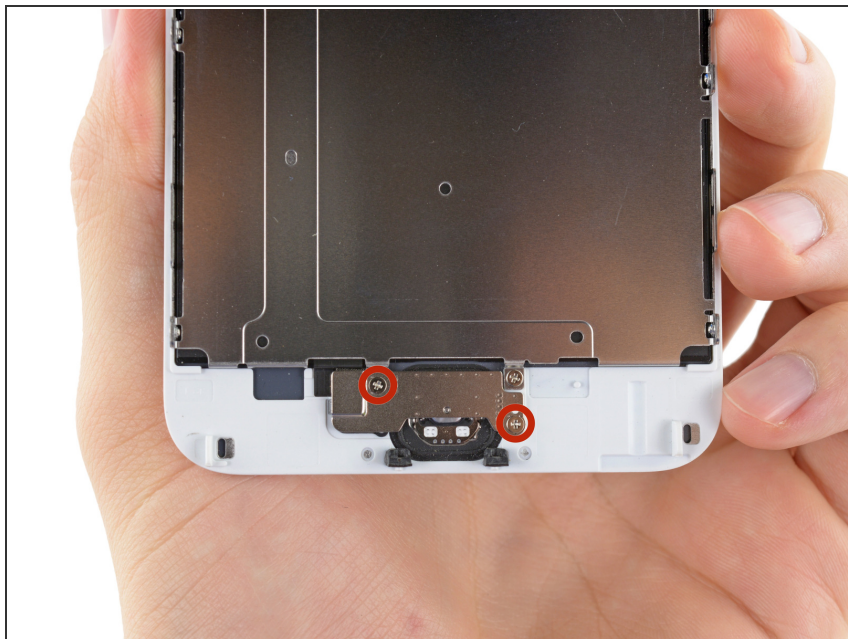
## Step 18



- Remove the front panel assembly from the rear case.



## Step 19 — Home Button Assembly



- Remove the two 1.8 mm Phillips #00 screws securing the home button bracket to the front panel.

## Step 20



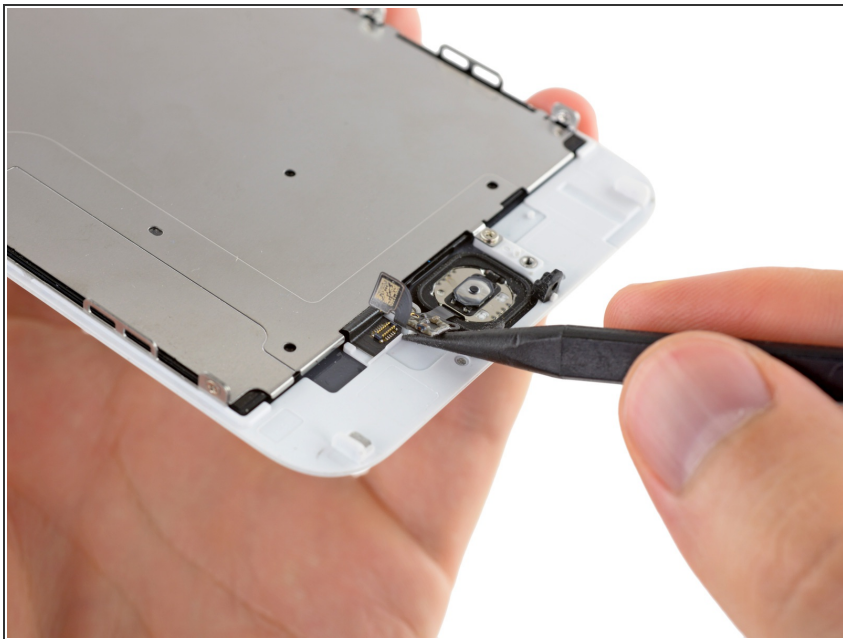
- Remove the home button bracket from the front panel assembly.

## Step 21



- Use the tip of a spudger to disconnect the home button connector from its socket on the home button cable.

## Step 22




- Carefully wedge the tip of a spudger underneath the home button connector cable.
- Gently move the spudger across to separate the home button connector cable from the adhesive securing it to the front panel assembly.


⚠ If the cable doesn't separate easily, apply heat using an [iOpener](#) or hair dryer to soften the adhesive, and try again. Be careful not to damage the cable.

## Step 23



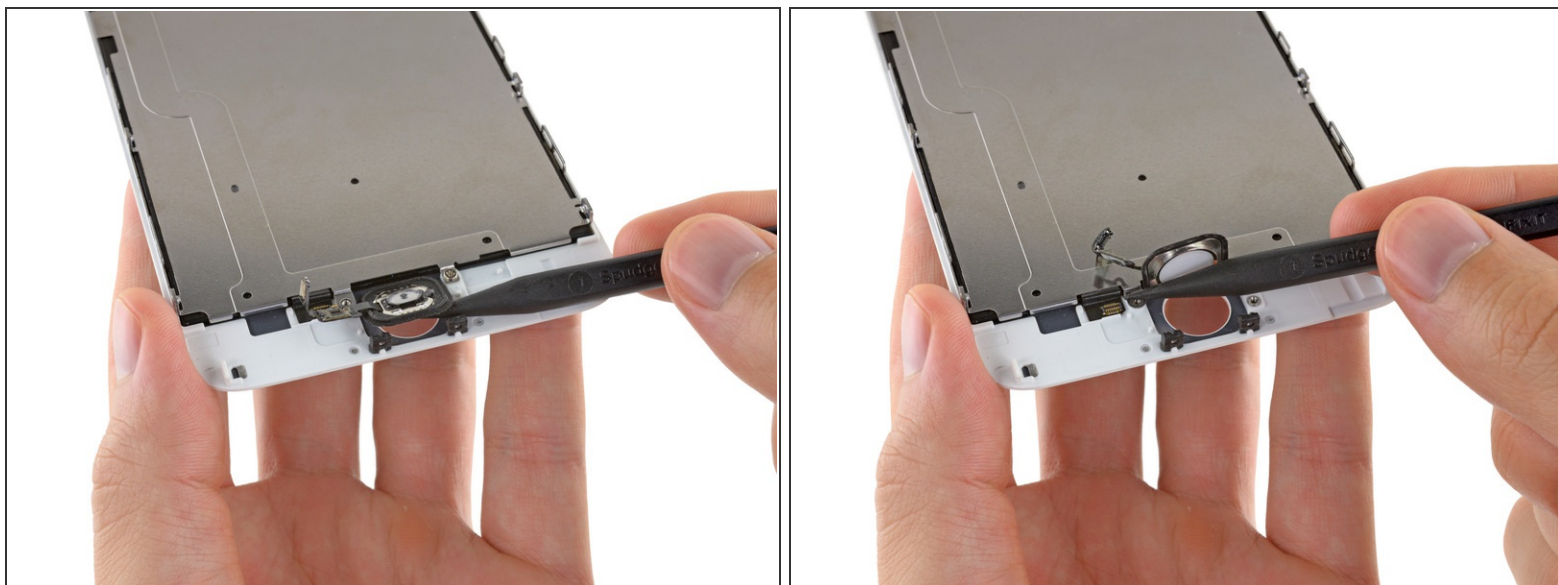
- Using your fingertip, gently push, but do **not** remove, the home button up from the opposite side to free one edge of the home button gasket from the front panel.

 Do **not** push the home button all the way through—you only need to get a corner free, so that you can pry it free with a spudger.

 The rubber gasket surrounding the home button is very thin. To prevent the gasket from tearing, we recommend applying a minimal amount of heat.



## Step 24



- Carefully run the tip of a spudger underneath the perimeter of the home button to separate it from the front panel assembly.

## Step 25



- Lift and remove the home button assembly off the front panel assembly.

## Step 26 — Display Assembly



- Display assembly remains.

- ✦ The Touch ID function will **ONLY** work with your phone's original home button assembly, so you'll need to transfer the home button assembly from your old display assembly to your new display assembly to retain Touch ID.
- i After reassembly, clean the touchscreen surface with an alcohol wipe prior to turning the iPhone back on. The alcohol helps dissipate any lingering static electricity, which can cause problems with the display.
- ⚠ After reassembly, connect the iPhone to an AC power source before turning it on for the first time. Once the iPhone has booted up successfully, you can disconnect the AC power.

To reassemble your device, follow these instructions in reverse order.

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